DEPARTMENT OF AGRICULTURE
Rural Electrification Administration
Technical Standards Committees

LIST OF MATERIALS ACCEPTABLE FOR USE ON REA-FINANCED SYSTEMS

1. The succeeding sheets constitute the authoritative list of materials considered acceptable by the REA for use on REA-financed systems, as of December 2, 1944.

2. The acceptance of a new item or the deletion of an existing item is a function of the Technical Standards Committees which were established June 27, 1941. The present list includes many items which were considered acceptable prior to the establishment of these committees. A copy of the committees' procedure will be forwarded upon request.

3. Anyone desiring to have a new item placed on the list, or believing an existing item should be removed from the list, is invited to submit the matter to the committees. Detailed supporting data must accompany such requests or suggestions.

4. Any communication calling attention to an error or omission in the list, such as a wrong catalog number, an obsolete item, etc., will be appreciated. All communications should be addressed to Technical Standards Committee "A", Rural Electrification Administration, Boatmen's Bank Building, St. Louis 2, Missouri.

5. This list supersedes all preceding issues including revisions.

C-594

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INDEX

a - Insulator, pin

KV Class:	Delta 5	Star 7.2/12.5	Delta 15	22	33	44	66
Specifications:							
Flashover, KV Dry	45	65	70	95	125	140	165
" , KV Wet	23	35	40	65	85	100	130
Leakage, Inches	4	7	7½	12	20	26	31
Strength, Pounds	2500	2500	2500	2500	3000	3000	3000
Diam. Pin Hole, Inches	1	1	1	1-3/8	1-3/8	1-3/8	1-3/8
Manufacturer:			**Catalog Number:**				
Ill. Elec. Porc.							
(1-piece)	253	261	266	---	---	---	---
(multi-part)	---	---	---	2027	2045	2055	3066
(high)	---	135	175	---	---	---	---
Jeffery-Dewitt	8	13	15	30	45	58	66-R
	---	---	---	---	---	---	---
	---	10077	---	---	---	---	---
Pinco	401	63	1044	1123	1125	---	---
	---	---	---	69	75	428A	435
	---	---	---	---	---	---	---
Lapp	6192	6184	7385	---	---	---	---
	---	---	---	6179	5440	5940	6173
	---	---	5840	---	---	---	---
Locke	---	9995	10270	1227	1244	---	---
	#66	---	---	1027	1044	1055	1066
	---	77	88	---	---	---	---

(KV Class)	(5)	(7.2/12.5)	(15)	(22)	(33)	(44)	(66)
Ohio Brass (1 piece)	12847	12848	12849	34546	34623	---	---
(multi-part)	---	---	---	33546	33623	33855	33552
(high)		34848	34849	---	---	---	---
Porc. Prod.	6187	6195	6198R	6034R	6033R	---	---
	---	---	---	6134R	6133R	6137R	6138R
		6377	6388	---	---	---	---
Thomas	1009	1177	1216	1917	1924	---	---
	---	---	---	2117	2124	2126	3060
		277	288	---	---	---	---
Westinghouse	146	---	1012	881875	816625	---	---
	---	---	---	---	2133	2144	3255
		968473	968474	---	---	---	---
Victor	8	5	11	127	145	---	---
	---	---	---	227	245	255	366
		17	18	---	---	---	---
Pyrex	63	171	171	271	453	553	---

Note: Radio noise-proof insulators of the foregoing will be accepted on the same basis as their standard porcelain insulators.

b - Pin, pole-top, steel

Thread, (inches diam.)	1	1	1-3/8
Length, over-all (inches)	15*	18	24
Spacing (inches)	5	8	8
Manufacturer:		Catalog Number:	
Hubbard			
Formed pin	3162	3170	3049
1¼" pipe pin	-	-	-
1¼" pipe fixture	-	-	-
1½" pipe pin	-	-	3073
1½" pipe offset pin	-	-	-
1½" pipe fixture	-	-	-
Joslyn			
Formed pin	583	2008	2011
1¼" pipe pin	-	-	-
1½" pipe pin	-	-	1281
Line Material			
Formed pin	SA28X8	12111	-
1¼" pipe pin	-	-	-
1½" pipe pin	-	-	12151
Kortick			
Formed pin	-	-	-
1¼" pipe pin	-	-	-
1½" pipe pin	-	-	8122
Electrical Mfg. Co.			
Formed pin	501	504	505A

* REA Standard

Length	15*	18	24
Manufacturer:		Catalog Number:	
Locke			
Formed pin	2026	2034	2049
$1\frac{1}{4}$" pipe pin	-	-	-
$1\frac{1}{2}$" pipe pin	-	-	2073
Oliver			
Formed pin	3717	-	3735
$1\frac{1}{4}$" pipe pin	-	-	-
$1\frac{1}{2}$" pipe pin	-	-	3825
Util. Service			
Formed pin	36531	788	-
$1\frac{1}{4}$" pipe pin	-	-	-
$1\frac{1}{2}$" pipe pin	-	-	776
Seyler		Same numbers as Locke	

* REA Standard

c - Bolt, Machine

Length, inches	8	10	12	14	16	18	20	18	20
Diam., inches				5/8"				3/4"	
Manufacturer:					Catalog Number:				
Hubbard	9808	9810	9812	9814	9816	9818	9820	9918	9920
Joslyn	8808	8810	8812	8814	8816	8818	8820	8918	8920
Line Material	9325	9326	9327	9328	9329	9330	9331	9346	9347
Locke	8808	8810	8812	8814	8816	8818	8820	8918	8920
Oliver	6108	6110	6112	6114	6116	6118	6120	6218	6220
Util. Service	5181	5182	5183	5184	5185	5186	5187	5197	5198
O'Leary	Order by size and description								
Mastergrip	M9808	M9810	M9812	M9814	M9816	M9818	M9820	M9918	M9920
Inter. Derrick & Equipment Co.	14530	14531	14532	14533	14534	14535	14536	14551	14552

Length, inches	8	10	12	14	16	18	20	18	20
Diam., inches				5/8"				3/4"	
Manufacturer:				Catalog Number:					
Standco	Order by size and description								
Lewis	6108	6110	6112	6114	6116	6118	6120	-	-
Electrical Mfg. Co.	M508	M510	M512	M514	M516	M518	M520	M618	M620
Seyler	8808	8810	8812	8814	8816	8818	8820	8918	8920
Kortick	1208	1210	1212	1214	1216	1218	1220	1318	1320

d - Washer

Manufacturer:	Catalog Number:	
	$2\frac{1}{4}$"x$2\frac{1}{4}$"x3/16", 13/16" hole	4"x4"x$\frac{1}{5}$", 13/16" hole
Hubbard	7814	7819$\frac{1}{5}$
Joslyn	1076	1473
Line Material	9451	9457 Sp.
Locke	6814	6819$\frac{1}{5}$
Oliver	6943	6938
Utilities Service	5485	5490A
O'Leary	Order by size and description	
Mastergrip	M7813	
Inter. Derrick & Equipment Co.	14217	
Standco	Order by size and description	
Lewis	6943	
Electrical Mfg. Co.	853	859
Seyler	Same numbers as Locke	
Kortick	1553	1559$\frac{1}{5}$

f - Pin, crossarm, steel

Thread (inches diam.)	1	1	1	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8
Length, above base (inches)	4-3/4	4-3/4	6	6	7	8	9	10
Shank (inches diam.)	5/8	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Manufacturer:				Catalog Number:				
Hubbard								
Long Shank	981	990A	5312	5324	5326	5328	5330	5332
Short Shank	986	993A	5311	5323	5325	5327	5329	5331
Joslyn								
Long Shank	203A	-	-	607½	607A	608	609	610
Short Shank	221A	-	-	629½	630	631	632	633
Line Material								
Long Shank	223848	-	-	235459	31437	31447	31457	31467
Short Shank	-	-	-	235419	31432	31442	31452	31462
Locke								
Long Shank	881	890A	4312	4324	4326	4328	4330	4332
Short Shank	886	893A	4311	4323	4325	4327	4329	4331
Oliver								
Long Shank	3506	-	3466	3066	3417	3418	3419	3420
Short Shank	3555	-	3456	3166	3467	3468	3469	3470
Util. Service								
Long Shank	558	562	3128	3150	3137	3138	3139	3140
Short Shank	579	581	3131	3147	3148	3143	3144	3145

Thread (inches diam.)	1	1	1	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
Length, above base (inches)	4 3/4	4 3/4	6	6	7	8	9	10
Shank (inches diam.)	5/8	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Manufacturer:				Catalog Number:				
Electrical Mfg. Co.								
Long Shank	911	---	917	940	941	946	953	954
Short Shank	920	---	922	929	946	947	959	960
Seyler								
Long Shank	881	890A	4312	4324	4326	4328	4330	4332
Short Shank	886	893A	4311	4323	4325	4327	4329	4331
Kortick								
Long Shank	7103	---	---	---	---	---	---	---
Short Shank	7122	---	---	---	---	---	---	---

h - Brace, crossarm, diagonal

Size (inches)	$1\frac{1}{4} \times \frac{1}{4}$*	$1\frac{1}{2}$ angle x 3/16	
Style	Flat	Bow	Bow
Centers (inches)	26	42	60
Length (inches)	28	--	--
Manufacturer:	Catalog Number:		
Hubbard	8128	7940	7942
Joslyn	7128	1506	1508
Line Material	9219	9251	9256
Locke	7128	6940	6953
Oliver	5228	5240	5244
Util. Service	5243	5214	5217
O'Leary	Order by size and description		
Mastergrip	M8128	M7940	-
Inter. Derrick & Equipment Co.	14024	14030	-
Standco	Order by size and description		
Electrical Mfg. Co.	828	756	759
Seyler	Same numbers as Locke		
Kortick	1428	1812	1815

* REA Standard

i - Bolt, carriage

Length (inches)	3	3½	4	4½	5	5½	6
Manufacturer:				Catalog Number:			
Hubbard							
3/8"	9633	9633½	9634	9634½	9635	9635½	9636
1/2"	9643	9643½	9644	9644½	9645	9645½	9646
Joslyn							
3/8"	8633	8633½	8634	8634½	8635	8635½	8636
1/2"	-	-	8644	8644½	8645	8645½	8646
Line Material							
3/8"	9350	9351	9352	9353	9354	9355	9356
1/2"	9357	9358	9360	9361	9362	9363	9364
Oliver							
3/8"	5303	5303½	5304	5304½	5305	5305½	5306
1/2"	5403	5403½	5404	5404½	5405	5405½	5406
Electrical Mfg. Co.							
3/8"	C303	C303½	C304	C304½	C305	C305½	C306
1/2"	-	-	C404	C404½	C405	C405½	C406
Util. Service							
3/8"	5055	5056	5057	5058	5059	5060	5061
1/2"	5062	5063	5064	5065	5066	5067	5068
Mastergrip							
3/8"	M9633	M9633½	M9634	M9634½	M9635	M9635½	M9636
1/2"	M9643	M9643½	M9644	M9644½	M9645	M9645½	M9646

Length (inches)	3	3½	4	4½	5	5½	6
Manufacturer:				Catalog Number:			
Inter. Derrick & Equipment Co.							
3/8"	14594	14592	14593	14595	14596	14597	14597-A
1/2"	14597-B	14597-C	14597-D	14597-E	14597-F	14597-G	14598
Kortick							
3/8"	1043	1043½	1044	1044½	1045	1045½	1046
1/2"	1133	1133½	1134	1134½	1135	1135½	1136
Standco	Order by size and description						
Seyler	Same numbers as Joslyn						
Locke	Same numbers as Joslyn						
Lewis							
3/8"	5303	5303½	5304	5304½	5305	5305½	5306
1/2"	5403	5403½	5404	5404½	5405	5405½	5406

j - Screw, lag

Length (inches)	2½	3	3½	4	4½	5	6
Manufacturer:				Catalog Number:			
Hubbard							
3/8"	9742½	9743	9743½	9744	9744½	9745	9746
1/2"	9752½	9753	9753½	9754	9754½	9755	9756
5/8"	-	-	-	9764	9764½	9765	9766
Joslyn							
3/8"	8742½	8743	8743½	8744	8744½	8745	8746
1/2"	8752½	8753	8753½	8754	8754½	8755	8756
5/8"	-	-	-	8764	8764½	8765	8766
Line Material							
3/8"	-	9535	9536	9537	9538	9539	9540
1/2"	9541	9542	9543	9544	9545	9546	9547
5/8"	-	-	-	9549	9549½	9550	9551
Locke	Same as Joslyn						
Oliver							
3/8"	5602½	5603	5603½	5604	5604½	5605	5606
1/2"	5702½	5703	5703½	5704	5704½	5705	5706
5/8"	-	-	-	5804	5804½	5805	5806
Util. Service							
3/8"	5361	5362	5363	5364	5365	5366	5367
1/2"	5368	5368A	5369	5370	5371	5372	5374
5/8"	-	-	-	5377	5378	5379	5381
Kortick							
3/8"	1032½	1033	1033½	1034	1034½	1035	1036
1/2"	1122	1123	1123½	1124	1124½	1125	1126
5/8"	-	-	-	1234	1234½	1235	1236

Length (inches)	2½	3	3½	4	4½	5	6
Manufacturer:				Catalog Number:			
Mastergrip							
3/8"	M9742½	M49743	M9743½	M9744	M9744½	M9745	M9746
1/2"	M9752½	M9753	M9753½	M9754	M9754½	M9755	M9756
5/8"	------	-----	------	M9764	M9764½	M9765	M9766
Inter. Derrick & Equip. Co.							
3/8"	14421-B	14421-C	14421	14423-A	14423-B	14423-C	14423-D
1/2"	14423-E	14423	-----	14424	14425	14426	14426-B
5/8"	-------	-----	-----	14426-E	14426-F	14427	14427-B
Standco							
3/8"	Order by size and description						
1/2"	" " " " "						
5/8"	" " " " "						
Lewis							
3/8"	5602½	5603	5603½	5604	5604½	5605	5606
1/2"	5702½	5703	5703½	5704	5704½	5705	5706
Electrical Mfg. Co.							
3/8"	L302½	L303	L303½	L304	L304½	L305	L306
1/2"	L402½	L403	L403½	L404	L404½	L405	L406
5/8"	-----	----	-----	L504	L504½	L505	L506
Seyler	Same numbers as Joslyn						

k - Insulator, suspension

All items listed shall have 5/8" cotter bolts

KV Class:	5	7.2/12.5	15	22	33	44	66
Specification:							
Flashover, KV Dry	45	50	65	80	80	80	80
" " Wet	23	30	40	50	50	50	50
Leakage, Inches	4	$5\frac{1}{4}$	7	$11\frac{1}{4}$	$11\frac{1}{4}$	$11\frac{1}{4}$	$11\frac{1}{4}$
Strength, Pounds	4000	10000	10000	15000	15000	15000	15000
Diam. Inches	6	6	$7\frac{1}{2}$	10	10	10	10
Units per string	1	2	2	2	3	4	5
Spacing, Inches	--	5	--	5-3/4	5-3/4	5-3/4	5-3/4
Manufacturer:		**Catalog Number:**					
Ill. Elec. Porc.	454	1261	1270	1271	1271	1271	1271
		1259	---	---	---	---	---
Jeffery-Dewitt	2543	2551-R	---	2654	2654	2654	2654
		2680	---	---	---	---	---
Pinco	1510	2410	600	1070	1070	1070	1070
		1510	---	---	---	---	---
Lapp	6205	6605	9507	8100	8100	8100	8100
Locke	16583	16583	5875	5800	5800	5800	5800
		18116	---	580	580	580	580
Ohio Brass	36567	32433	32435	32439	32439	32439	32439
Porc. Prod.	66107	66107	6606	6614	6614	6614	6614
Thomas	1277	1204	1199B	21238	21238	21238	21238
		1277	---	---	---	---	---
Westinghouse	918371	918371	570262	570265	570265	570265	570265
Victor	806	804	801	800	800	800	800
		806	---	---	---	---	---
Pyrex	65221	65221	---	65224	65224	65224	65224

1 - Clamp, deadend
All items listed shall have 5/8" cotter bolts

Stranded Copper-type Conductors:

	30% E. H. S.							40% H.S.
Gauge	3#6	#2-3 str.cu.	4A	6A	8A	8C	9½D	3#12
Diam. (inches)	0.349	0.320	0.290	0.230	0.199	0.179	0.174	0.174
Manufacturer:				**Catalog Number:**				
Ohio Brass	80500	80500	80500	80500	80500	80500	80500	80500
Joslyn (Pinco)	L-4038 2177U*	L-4038 2177U*	L-4038 2177U*	L-4038 2177U*	L-4038 2177U*	L-4038 2177U*	L-4038 2177U*	L-4038 2177U*
Locke	20294	20294	20294	20294	20294	20294	20294	20294
Thomas	2102 2202	2102 2202	2102 2202	2102 2202	2102 2202	2102 2202	2102 2202	2102 2202
Line Material (Victor)	- V2102	- V2102	V2090 V2102	V2090 V2102	V2090 V2102	V2090 V2102	V2090 V2102	V2090 V2102
Westinghouse	968751	968751	968751	968751	968751	968751	968751	968751
Porc. Prod.	7510	7510	2110	2110	2110	2110	2110	2110
Jeffery-Dewitt	5301	5301	5301	5301	5301	5301	5301	5301
Brewer-Titchener	2102	2102	2102	2102	2102	2102	2102	2102
Lapp	2102 2100U	2102 2100U	2102 2100U	2102 2100U	2102 2100U	2102 2100U	2102 2100U	2102 2100U
Seyler	Same numbers as Locke							
Ill. Elec. Porc.	2102	2102	2102	2102	2102	2102	2102	2102

* War Standard Item, acceptable for the duration and ninety days thereafter.

12244-1-1

All items listed shall have 5/8" cotter bolts

Aluminum conductor (ACSR):

Gauge	2/0-6/1	1/0-6/1	2-7/1	2-6/1	4-7/1	4-6/1	6-6/1
Diam. plus tape (inches)	0.547	0.498	0.425	0.416	0.357	0.350	0.258
Manufacturer:				Catalog Number:			
Alum. Co. of Amer.	403	403	-	-	-	-	-
Ohio Brass	78500	78500	81500	81500	81500	81500	81500
Joslyn (Pinco)	L-1921	L-4050 L-4536*	L-4050 L-4536*	L-4050 L-4536*	L-4050 L-4536*	L-4050 L-4536*	L-4050 L-4536*
Locke	20087	20293 20295*	20293 20295*	20293 20295*	20293 20295*	20293 20295*	20293 20295*
Thomas	7511	7511	7511	7511	7511	7511	7511
Victor (Line Material)	V-4060	V-4050	V-4050	V-4050	V-4050	V-4050	V-4050
Westinghouse	BTC-7511	1028291 BTC-2104*	1028291 BTC-2104*	1028291 BTC-2104*	1028291 BTC-2104*	1028291 BTC-2104*	1028291 BTC-2104*
Porc. Prod.	7511	7511	7509	7509	7509	7509	7509
Jeffery-Dewitt	5311	5026	5026	5026	5026	5026	5026
Lapp	7511	7511	7511	7511	7511	7511	7511
Seyler	Same numbers as Locke						

* War Standard Item, acceptable for duration and ninety days thereafter.

All items listed shall have 5/8" cotter bolts

Crapo	4	6		8			
Ruralductor	4	6		8			
Amersteel	4	6		8			
Diameter	0.297	0.252		0.207			
Amerductor SCP and SCG							
Gauge	4	6	8	8X	9X	10	12
Diameter (inches)	0.310	0.248	0.196	0.216	0.192	0.220	0.175
Manufacturer:			Catalog Number:				
Ohio Brass	80500	80500	80500	80500	80500	80500	80500
Westinghouse	968751	968751	968751	968751	968751	968751	968751
Joslyn (Pinco)	4038	4038	4038	4038	4038	4038	----
Locke	20294	20294	20294	20294	20294	20294	20294
Porcelain Products	----	2110	2110	2110	2110	2110	2100
Line Material (Victor)	V2102	V2102	V2102	V2102	V2102	V2102	V2102
Thomas	2102 2202	2102 2202	2102 2202	2102 2202	2102 2202	2102 2202	2102 2202
Jeffery-Dewitt	5301	5301	5301	5301	5301	5301	5301
Lapp	2102 2100U	2102 2100U	2102 2100U	2102 2100U	2102 2100U	2102 2100U	2102 2100U

m - Clamps, suspension
All items listed shall have 5/8" cotter bolts
(For use on ACSR only, as
shown on drawing M41-10)

Aluminum conductor (ACSR):

Gauge	2/0-6/1	1/0-6/1	2-7/1	2-6/1	4-7/1	4-6/1	6-6/1
Diam. - rods (inches)	0.835	0.744	0.595	0.586	0.555	0.548	0.434
Manufacturer:			Catalog Number:				
Alum. Co. of America	---	---	---	---	---	---	---
Ohio Brass	---	---	82860	82860	82860	82860	82860
Pinco (Joslyn)	---	---	4095	4095	4095	4095	4095
	---	---	4020	4020	4020	4020	4020
Locke	---	---	20285	20285	20285	20285	20285
Thomas (Hubbard)	---	---	2300	2300	2300	2300	2300
Victor (Line Material)	---	---	V-2270-M	V-2270-M	V-2270-M	V-2270-M	V-2270-M
Westinghouse	---	---	968753	968753	968753	968753	968753
Lapp	---	---	20920	20920	20920	20920	20920
Porc. Prod.	---	---	7521	7521	7521	7521	7521
Jeffery-Dewitt	---	---	4661	4661	4661	4661	4661
Seyler	Same numbers as Locke						
Ill. Elec. Porc.	---	---	2300	2300	2300	2300	2300

(m)

Clamps, suspension, 2-bolt

	Amerductor, Crapo and Ruralductor #4 to #8		
	Amerductor #4 to #12,		
	Copper & CWC	ACSR	
Manufacturer:	#6 to #1/0	#2, #4	#1/0
Ohio Brass	83044	83064	83084
Joslyn (Pinco)	L4201	L4303	L4307
Locke	46240	46241	46243
Thomas	6240	6241	6243
Line Material (Victor)	6240	6241	6243
Westinghouse	BTC6240U	BTC6241U	BTC6243U
Lapp	9300-V	9301-V	9303-V
Porc. Products	6240	6241	6243
Jeffery Dewitt	4201	4203	4207
Util. Service	Same as Westinghouse		

n - Bolt, double arming

Length (inches)	12	14	16	18	20
Manufacturer:			Catalog Number:		
Hubbard					
5/8"	9862	9864	9866	9868	9870
3/4"	9882	9884	9886	9888	9890
Joslyn					
5/8"	8862	8864	8866	8868	8870
3/4"	8882	8884	8886	8888	8890
Lewis					
5/8"	6412	6414	6416	6418	6420
Line Material					
5/8"	9380	9381	9382	9383	9384
3/4"	9390	9391	9392	9393	9394
Locke	Same numbers as Joslyn				
Seyler	Same numbers as Joslyn				
Oliver					
5/8"	6412	6414	6416	6418	6420
3/4"	6512	6514	6516	6518	6520
O'Leary	Order by size and description				

Length (inches)	12	14	16	18	20
Manufacturer:			Catalog Number:		
Util. Serv.					
5/8"	5076	5077	5078	5079	5080
3/4"	5083	5084	5085	5086	5087
Standco	Order by size and description				
Kortick					
5/8"	1362	1364	1366	1368	1370
3/4"	1382	1384	1386	1388	1390
International Derrick & Equipment Company					
5/8"	14360	14361	14362	14363	14364
3/4"	14370	14371	14372	14373	14374
Mastergrip Util.					
5/8"	M9862	M9864	M9866	M9868	M9870
3/4"	M9882	M9884	M9886	M9888	M9890
Electrical Mfg. Co.					
5/8"	D512	D514	D516	D518	D520
3/4"	D612	D614	D616	D618	D620

o - Bolt, eye

Length (inches)	8	10	12	14	16	18	20
Manufacturer:				Catalog Number:			
Hubbard							
5/8" Mach.	39958	39960	39962	39964	39966	39968	39970
Dbl. Arm.	--	--	--	--	29786	29788	29790
3/4" Mach.	39978	39980	39982	39984	39986	39988	39990
Dbl. Arm.	--	--	--	--	29796	29798	29800
Joslyn							
5/8" Mach.	9408	9410	9412	9414	9416	9418	9420
Dbl. Arm.	--	--	--	9614	9616	9618	--
3/4" Mach.	9508	9510	9512	9514	9516	9518	--
Dbl. Arm.	--	--	--	9634	9636	9638	--
Line Material							
5/8" Mach.	9431-N	9432-N	9433-N	9434-N	9435-N	9436-N	9437-N
Db. Arm.	---	---	---	---	9405-N	9406-N	9407-N
3/4" Mach.	9439-N	9440-N	9441-N	9442-N	9443-N	9444-N	9445-N
Dbl. Arm.	---	---	---	---	H9796-N	H9798-N	9415-N
Locke							
5/8" Mach.	29958	29960	29962	29964	--	--	--
Dbl. Arm.	--	--	--	--	19786	19788	19790
3/4" Mach.	29978	29980	29982	29984	--	--	--
Dbl. Arm.	--	--	--	--	19796	19798	19800

Length (inches)	8	10	12	14	16	18	20
Manufacturer:				Catalog Number:			
Oliver							
5/8" Mach.	9608	9610	9612	9614	9616	9618	9620
Dbl. Arm.	-	-	-	-	7916	7918	7920
3/4" Mach.	9708	9710	9712	9714	9716	9718	9720
Dbl. Arm.	-	-	-	-	8916	8918	8920
Kortick							
5/8" Mach.	2680	2681	2682	2684	2685	2686	2687
Dbl. Arm.	-	-	-	2602	2603	2604	-
3/4" Mach.	2703	2704	2705	2706	2707	2708	-
Dbl. Arm.	-	-	-	2615	2616	2617	-
Util. Service							
5/8" Mach.	5099	5100	5101	5102	5103	5104	5105
Dbl. Arm.	-	-	-	5115	5116	5117	5118
3/4" Mach.	5109	5110	5110A	5111	5112	5113	5114
Dbl. Arm.	-	-	-	5121	5122	5123	5124

Length (inches)	8	10	12	14	16	18	20
Standco			Order by size and description				
International D & E	14291	14292	14293	14294	14295	14296	14297
5/8" Mach.	---	---	---	---	14314	14315	14316
Dbl. Arm.	14301	14302	14303	14304	14305	14306	14307
3/4" Mach.	---	---	---	---	14317	14318	14319
Dbl. Arm.							
Mastergrip Utilities							
5/8" Mach.	M-9958	M-9960	M-9962	M-9964	M-9966	M-9968	M-9970
Dbl. Arm.	---	---	---	---	M-9786	M-9788	M-9790
3/4" Mach.	M-9978	M-9980	M-9982	M-9984	M-9986	M-9988	M-9990
Dbl. Arm.	---	---	---	---	M-9796	M-9798	M-9800
Electrical Mfg. Co.							
5/8" Mach.	E-508	E-510	E-512	E-514	E-516	E-518	E-520
Dbl. Arm.	---	---	---	F-514	F-516	F-518	---
3/4" Mach.	E-608	E-610	E-612	E-614	E-616	E-618	---
Dbl. Arm.	---	---	---	F-614	F-616	F-618	---
Seyler							
5/8" Mach.	8958	8960	8962	8964	---	---	---
Dbl. Arm.	---	---	---	---	8786	8788	8790
3/4" Mach.	8978	8980	8982	8984	---	---	---
Dbl. Arm.	---	---	---	---	8796	8798	8800

Copper and Copperweld Copper:	00x7	0x7 1x3	2x3 1x7	4	6	4A	6A	8A	9½D	3#12
Matthews										
To same conductor or smaller	00-NU	0-NU	2-NU	4-NU	6-NU	2-NU	4-NU	6-NU	6-NU	6-NU
Guy Strand ¼" to 7/16"										
Service Connector				4-SE	6-SE					
Reliable										
To same conductor or smaller	418C	373SC	1F	4F	6F	1F	1F	4F	4F	4F
Guy Strand ¼" to 7/16"					438ALC					
Service Connector				46SE	68SE					
Burndy										
To same conductor or smaller	KS26	KS25	KS23	KS20	KS17	KS23	KS20	KS17	KS17	KS17
Guy Strand ¼" to 7/16"					BPG625S4C					
Service Connector				KP4C	KP6C					
Anderson Brass										
To same conductor or smaller	LC22	ST-3	ST-2	ST-1	ST-1	ST-2	ST-1	ST-1	ST-1	ST-1
Guy Strand ¼" to 7/16"					LC522					
Service Connector				S1	S1					
Blackburn										
To same conductor or smaller	2/oH	1/oH	1H	4H	6H	2H	4H	6H	6H	6H
Guy Strand ¼" to 7/16"										
Service Connector				4S	6S					
Line Material										
To same conductor or smaller	CL10X13B 3132	CL10X1B 3130	CL10X1B 3130	CL10X1B 3124	---- 3126	CL10X1B 3122	CL10X1B 3124	CL10X1B 3126	---- 3126	---- 3126
Guy Strand ¼" to 7/16"					CL10X14					
Service Connector				3417-1	3419-1					

12244-p-1A

Copper and Copperweld Copper:	00x7	0x7	2x3	4	6	4A	6A	8A	9½D	3#12
Fargo										
To same conductor or smaller	5020-S	5020	5002-S	5004	5006	5002	5004	5006	5006	5006
Guy Strand ¼" to 7/16"										
Service Connector				SE4	SE6					
J. R. Kearney										
To same conductor or smaller	830-2R	56-2R	66-2R	905-2R	902-2R	66-2R	905-2R	902-2R	902-2R	902-2R
Guy Strand ¼" to 7/16"					9968-1					
Service Connector				6494	6493					
Sherman										
To same conductor or smaller	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33
parallel groove split bolt		TS1/0	TS2ST	TS4	TS6	TS2	TS4	TS6	TS6	TS6
Guy Strand ¼" to 7/16"					R12					
Service Connector				SC4X	SC6X					
K & H										
To same conductor or smaller	UC58C	UC58C	UC58C	UC58C	UC58C	UC58C	UC58C	UC58C	UC58C	UC58C
Guy Strand ¼" to 7/16"					UC58B					
Service Connector				397A	397A					
Penn-Union										
To same conductor or smaller	S2/0HR	S1/0HR	S2HR	S4HR	S6HR	S3HR	S4HR	S6HR	S6HR	S6HR
Guy Strand ¼" to 7/16"					C4A					
Service Connector				SX4	SX6					
Weaver										
To same conductor or smaller	W3-4	W1-2	W1-2	W6-2	W6-2	W6-2	W6-2	W6-2	W6-2	W6-2
Guy Strand ¼" to 7/16"										
Service Connector					W6-2					

Copper and Copperweld Copper:	00x7	0x7	2x3	4	6	4A	6A	8A	9½D	3#12
Sheldon										
To same conductor or smaller	DC41	DC37	DC29	DC20	DC16	DC29	DC26	DC20	DC20	DC20
Guy Strand ¼" to 7/16"										
Service Connector										
Joslyn										
To same conductor or smaller		J3610	J3622	J3604	J3606	J3602	J3604	J3606	J3606	J3606
Guy Strand ¼" to 7/16"					3155					
Service Connector				J3644	J3668					
Porcelain Products										
To same conductor or smaller										
Guy Strand ¼" to 7/16"										
Service Connector				2163	2165					
Royal Electric										
To same conductor		1739	1739							

(Copper and Copperweld Copper)

	LONG CONNECTORS - 3 Conductor of size indicated			
	#2	#4	#6	Solid Conductor
Line Material	3406-L	3404-L	3403-L	
Anderson	-	-	LC-900-36	
K. & H.	-	44	-	
Penn Union	S-EL-3H	S-EL-4H	S-EL-6H	
Sherman	-	TSS-4	TSS-6	
Reliable	-	L206SC	L165SC	

(As recommended by (n)ductor manufacturer)

						Over Armor Rods			
		2/0	1/0	2	4	2/0	1/0	2	4
A. C. S. R.									
Reliable									
To A. C. S. R.	Same size or smaller	--	10ALW	2ALW	4ALW	--	744AL	744AL	555AL
To Copper	#4 & #6	--	--	--	--	--	744ALC	744ALC	555ALC
To Copperweld	4A, 6A, 8A, 9½D & 3#12	--	--	--	--	--	744ALC	744ALC	744ALC
To Guy Strand	1/4", 3/8" & 7/16"	--	--	438AL	438AL				
Burndy									
To A. C. S. R.	Same size or smaller	--	KSA26	KSA23	KSA22	--	BPG64A26R	BPG11A26R	BPG11A26R
To Copper	#4 & #6	--	--	--	--	--	BPG64A2W	BPG11A4W	BPG11A4W
To Copperweld	8A, 9½D & 3#12	--	--	--	--	--	BPG64A2W	BPG11A4W	BPG11A4W
To Guy Strand	1/4" to 7/16"	--	--	BPG625S2R	BPG625S2R	--	--	--	--
Anderson Brass									
To A. C. S. R.	Same size or smaller	LC53	LC52	LC52	LC52	--	LC82	LC53	LC53
To Copper	#4 & #6	--	--	--	--	--	LC811	LC811	LC811
To Copperweld	4A, 6A, 8A, 9½D & 3 #12	--	--	--	--	--	LC822	LC811	LC811
To Guy Strand	1/4" to 5/16"	--	--	LC53	LC53	--	--	--	--

A. C. S. R.	2/0	1/0	2	4	Over Armor Rods 2/0	1/0	2	4
Blackburn								
Connection to same conductor or smaller	---	1/0AAW	2AAW	4AAW				
To Copper #4 & #6	---	---	---	---	---	---	---	---
To Copperweld	---	---	---	---	---	---	---	---
To Guy Strand 1/4" to 7/16"	---	---	1/0AAW	1/0AAW	---	---	---	---
Line Material								
Connection to same conductor or smaller	---	3960	3962	3964	---	CL10x7	CL10x7	CL10x9
	CL10x11	CL10x3	CL10x3	CL10x1	---	---	---	---
To Copper #4 & #6	---	---	---	---	---	CL10x8	CL10x8	CL10x8
To Copperweld 8A, 9½D & 3 #12	---	---	---	---	---	CL10x8	CL10x8	CL10x8
4A & 6A	---	---	---	---	---	---	---	---
To Guy Strand ¼" & 3/8"	---	---	3962	3962	---	---	---	---
J. R. Kearney								
Connection to same conductor or smaller	---	6847-1	6846-1	6759-1	---	---	---	---
To Copper #4 & #6	---	---	---	---	---	---	---	---
To Copperweld 4A, 6A, 8A 9½D & 3 #12	---	---	---	---	---	---	---	---
To Guy Strand 1/4", 3/8" & 7/16"	---	---	---	---	---	---	---	---

A. C. S. R.	2/0	1/0	2	4	Over Armor Rods 2/0	1/0	2	4
Penn Union								
To same conductor or smaller	-	AA-1/0	AA-2	AA-4	-	-	-	-
To Copper & Copperweld	-	-	-	-	-	-	-	-
To Guy Strand ¼" & 3/8"	-	-	AA-1/0	AA-1/0	-	-	-	-
Joslyn								
To same conductor or smaller	-	-	-	-	-	J3196	J3196	J3198
	-	J3619	J3617	J3616	-	3044	3044	3055
To Copper #4 to #6	-	J3629	J3627	J3626	-	3144	3144	3155
To Copperweld #4A to 3#12	-	J3629	J3627	J3626	-	3144	3144	3144
To Guy Strand	-	-	J3031	J3031	-	-	-	-
Aluminum Company of America								
To same conductor or smaller	190	192	192	194	184	196	196	198
To Copper #4 & #6	-	-	-	-	-	197	197	197
To Copperweld #8 to 3#12	-	-	-	-	-	197	197	197
To Guy Strand ¼" to 7/16"	-	-	196	198	-	-	-	-

(As recommended by conductor manufacturers)

Amersteel, Ruralductor and Crapo:		4	6		8			
Amerductor:		4	6	8	8X	9X	10	12
Matthews								
To Amersteel	(Same)	2-A	X2-A	-	4-A	-	-	-
Ruralductor	(Size)	2-A	X2-A	-	4-A	-	-	-
Crapo	(or)	2-A	X2-A	-	4-A	-	-	-
Amerductor	(Smaller)	2-A	X2-A	4-A	4-A	4-A	4-A	6-A
To A.C.S.R.	1/0 over armor rods	-	-	500-NU Plated	-	-	-	-
	2 over armor rods	-	-	350-NU Plated	-	-	-	-
	4 over armor rods	W-2-AC	W-X2-AC	W-X2-AC	W-X2-AC	W-X2-AC	W-X2-AC	W-X2-AC
To Copper	4 and 6	W-2-AC	W-X2-AC	W-4-AC	W-4-AC	W-4-AC	W-4-AC	W-4-AC
To Guy Strand	1/4"	2-A	X2-A	X2-A	X2-A	X2-A	X2-A	X2-A
	3/8"	-	-	0-A	-	-	-	-
	7/16"	-	-	00-A	-	-	-	-
Reliable								
To Amersteel	(Same)	2-G	4-G	-	6-G	-	-	-
Ruralductor	(Size)	2-G	4-G	-	6-G	-	-	-
Crapo	(or)	2-G	4-G	-	6-G	-	-	-
Amerductor	(Smaller)	2-G	4-G	6-G	6-G	6-G	6-G	6-G
To A.C.S.R.	1/0 over armor rods	-	-	744A1	-	-	-	-
	2 over armor rods	-	-	744A1	-	-	-	-
	4 over armor rods	-	-	555A1	-	-	-	-
To Copper	4 and 6	2GC	4GC	6GC	6GC	6GC	6GC	6GC
To Guy Strand	1/4" to 7/16"	-	-	438A1	-	-	-	-
Burndy								
To Amersteel	(Same)	KSL23	KSL22	-	KSL22	-	-	-
Ruralductor	(Size)	KSL23	KSL22	-	KSL22	-	-	-
Crapo	(or)	KSL23	KSL22	-	KSL22	-	-	-
Amerductor	(Smaller)	KSL23	KSL22	KSL20	KSL22	-	KSL22	-
To A.C.S.R.	1/0 over armor rods	-	-	BPG64A25A	-	-	-	-
	2 & 4 over armor rods	-	-	BPG11A25A	-	-	-	-
To Copper	4 and 6	KSLKL23	KSLKL22	KSLKL20	KSLKL22	-	KSLKL22	-
To Guy Strand	1/2" to 7/16"	-	-	BPG625S2R	-	-	-	-

(As recommended by conductor manufacturers)

Amersteel, Ruralductor and Crapo:		4	6		8			
Amerductor:		4	6	8	8X	9X	10	12
Anderson Brass								
To Amersteel	(Same)	LC-53	LC-51	-	LC-51	-	-	-
	( )	ST-20	STP-2	-	STP-1	-	-	-
Ruralductor	(Size)	LC-53	LC-51	-	LC-51	-	-	-
	( )	ST-20	STP-2	-	STP-1	-	-	-
Crapo	(or)	LC-53	LC-51	-	LC-51	-	-	-
	( )	ST-20	STP-2	-	STP-1	-	-	-
Amerductor	(Smaller)	LC-53	LC-51	LC-51	LC-51	LC-51	LC-51	LC-51
		ST-20	STP-2	STP-1	STP-1	STP-1	STP-1	STP-1
To A.C.S.R.	1/0 over armor rods	-	-	LC-82	-	-	-	-
	2 & 4 over armor rods	-	-	LC-53	-	-	-	-
		-	LC-81	LC-81	LC-81	LC-81	LC-81	LC-81
To Copper	4 & 6	-	-	LC-511	-	-	-	-
		ST-30	STP-2-C	STP-1-C	STP-1-C	STP-1-C	STP-1-C	STP-1-C
To Guy Strand	1/4" to 7/16"	ST-20	ST-20	ST-20	ST-20	ST-20	ST-20	ST-20
Blackburn								
To Amersteel	(Same)	1HP	2HP	-	4HP	-	-	-
Ruralductor	(Size)	1HP	2HP	-	4HP	-	-	-
Crapo	(or)	1HP	2HP	-	4HP	-	-	-
Amerductor	(Smaller)	1HP	2HP	4HP	4HP	4HP	4HP	4HP
To A.C.S.R.		-	-	-	-	-	-	-
To Copper	4 & 6	1HPW	2HPW	4HPW	4HPW	4HPW	4HPW	4HPW
To Guy Strand	1/4"	1HP	2HP	2HP	2HP	2HP	2HP	2HP
	3/8"	1/0HP	-	-	-	-	-	-
	7/16"	2/0HP	-	-	-	-	-	-
Line Material								
To Amersteel	(Same)	3406P	3405P	-	3404P	-	-	-
Ruralductor	(Size)	3406P	3405P	-	3404P	-	-	-
Crapo	(or)	3406P	3405P	-	3404P	-	-	-
Amerductor	(Smaller)	3406P	3405P	3404P	3404P	3404P	3404P	3404P
To A.C.S.R.		-	-	-	-	-	-	-
To Copper	4	3406PW	3405PW	3404PW	3404PW	3404PW	3404PW	3404PW
	6	3406PW	3405PW	3404PW	3404PW	3404PW	3404PW	3404PW
To Guy Strand	1/4"	-	-	-	3405P	-	-	-
	3/8"	-	-	-	3432P	-	-	-
	7/16"	-	-	-	3433P	-	-	-

(As recommended by conductor manufacturers)

Amersteel, Ruralductor and Crapo:	4	6		8			
Amerductor:	4	6	8	8X	9X	10	12
Kearney							
To Amersteel (Same)	6853-1	6852-1	-	-	-	-	-
Ruralductor (Size)	6853-1	6852-1	-	-	-	-	-
Crapo (or)	6853-1	6852-1	-	-	-	-	-
Amerductor (Smaller)	6853-1	6852-1	-	-	-	-	-
To A.C.S.R.	-	-	-	-	-	-	-
To Copper 4	6839-1	6733-1	-	-	-	-	-
6	6839-1	6733-1	-	-	-	-	-
To Guy Strand 1/4"	6853-1	6852-1	6852-1	6852-1	6852-1	6852-1	6852-1
3/8"	6854-1	6854-1	6854-1	6854-1	6854-1	6854-1	6854-1
7/16"	6855-1	6855-1	6855-1	6855-1	6855-1	6855-1	6855-1
Sherman							
To Amersteel (Same)	PTS-2ST	PTS-2	-	PTS-4	-	-	-
( )	R-22	R-22	-	R-22	-	-	-
Ruralductor (Size)	PTS-2ST	PTS-2	-	PTS-4	-	-	-
( )	R-22	R-22	-	R-22	-	-	-
Crapo (or)	PTS-2ST	PTS-2	-	PTS-4	-	-	-
( )	R-22	R-22	-	R-22	-	-	-
Amerductor (Smaller)	PTS-2ST	PTS-2	PTS-4	PTS-4	PTS-4	PTS-4	PTS-6
	R-22	R-22	R-22	R-22	R-22	R-22	R-22
To A.C.S.R.	-	-	-	-	-	-	-
To Copper 4 & 6	R-12	R-12	R-12	R-12	R-12	R-12	R-12
To Guy Strand 1/4"	PTS-2ST	PTS-2	PTS-2	PTS-2	PTS-2	PTS-2	PTS-2
	R-22	R-22	R-22	R-22	R-22	R-22	R-22
3/8"	PTS-1/0	PTS-1/0	PTS-1/0	PTS-1/0	PTS-1/0	PTS-1/0	PTS-1/0
	R-22	R-22	R-22	R-22	R-22	R-22	R-22
7/16"	PTL-2/0	PTL-2/0	PTL-2/0	PTL-2/0	PTL-2/0	PTL-2/0	PTL-2/0
	R-22	R-22	R-22	R-22	R-22	R-22	R-22
Joslyn							
To Same Conductor or Smaller	J3656	J3655	-	J3654	J3654	J3654	J3654
To A.C.S.R. 1/0 over armor rods	J3044	J3044	-	J3044	-	-	-
2 & 4 over armor rods	J3044	J3044	-	J3044	-	-	-
To Copper 4 & 6	J3653	J3652	-	J3651	-	-	-
To Guy Strand 1/4" to 7/16"	J3031	J3031	-	-	-	-	-

q - Bolt, double upset, insulated

Manufacturer:	Insulator 1-3/4" Groove*	Insulator 3" Groove	5/8" Bolt 8"	5/8" Bolt 9"	5/8" Bolt 10"
			Catalog Number:		
Hubbard	455	1716	8826	8828	8830
Line Material (Victor)	684	693	GP211	GP213	GP215
Locke	355 24205	0716 -	7826 -	7828 -	7830 -
Oliver	2100	2104	7524	7525	7526
Joslyn (Pinco)	151	0101	2394	2395	2396
Util. Service	205	199	31067	31069	31071
Lewis	-	-	7524	7525	7526
Electrical Mfg. Co.	210	218	U508D	U509D	U510D
Seyler	Same numbers as Locke				

* REA Standard

r - Clevis, secondary, deadend insulated

Manufacturer:	Insulator 1-3/4" Groove	Clevis Single	Clevis Double	Insulator 3" Groove	Clevis Single
			Catalog Number:		
Hubbard	455	568 1340 1342	1375	1716	569
Joslyn	151	193 0342	0375	0101	463
Line Material	684	GP251-S 1759 1857 KGE42B*	GP5051	693	GP251-S 143008 KGE42C*
Locke	355 24205	468W** 0342	0375	33013 0716	468 469
Oliver	2100	4834 4405	4465	2104	4833 4834
Porc. Prod.	5101	1443 1444 1453	11224	5119	1443

* War Standard Item, Acceptable for the duration and ninety days thereafter.

** Includes 1-3/4" Groove, wet process insulator.

Manufacturer:	Insulator 1 3/4" Groove	Clevis Single	Clevis Double	Insulator 3" Groove	Clevis Single
			Catalog Number:		
Util. Serv.	504	509	---	---	---
Lectrolite	6000	904	---	---	904
Mastergrip	6000	904	---	---	904
Thomas	5897-W	13226-T-2	---	---	---
Electrical Mfg. Co.	210	632 641	573	218	634 642
Seyler	355 24205	468 0342	--- ---	0716 ---	468 469

s - Clevis, secondary, swinging, insulated

Manufacturer:	Insulator 1-3/4" Groove*	Clevis Single	Insulator 3" Groove	Clevis Single
		Catalog Number:		
Hubbard	455	2968 1352 1369	1716	1367
Joslyn	151	0322	0101	0327
Line Material	684	102939 102940 110323	693	SPA-629
Locke	355 24205	0352W* 0366 1968	0716 33013	0353* -
Oliver	2100	4436 4438 4445	2104	-
Porc. Prod.	5101	1991	5119	-
Util. Service	205	31043 31045 31122	-	-
Electrical Mfg. Co.	210	646	218	676
Seyler	Same numbers as Locke			

* Number includes wet process insulator.

u - Clamp, guy - 3-bolt, 6"

Strand Size*:	1/4"	3/8"	7/16"
Manufacturer:		Catalog Number:	
Hubbard	7450	7450, 7461	7450, 7461
Joslyn	934	930, 931	931
Line Material	9492	9492, 9493	9493
Locke	6450	6450, 6461	6450, 6461
Oliver	9102	9002, 9004	9004
Util. Service	5273	5273, 5275	5273, 5275
Mastergrip	M7450	M7450, M7461	M7461
Inter. Derrick & Equipment Co.	14605	14605, 14603	14603
Electrical Mfg. Co.	802	802, 804	802, 804
Seyler	6450	6450, 6461	6450, 6461
Kortick	-	4124, 4005	4124, 4005
Kemper (roller clamp)	-	7-11	-

* As given by manufacturers.

v - Guy Attachment

Type:	Formed strap	Angle Thimbleye bolt eye
Strength:	* 5,200 lb. maximum	* 5,200 lb. maximum
Bolt Size:	5/8"	5/8"

Manufacturer:	Catalog Number:	
Hubbard	6004 6007	1100
Joslyn	6502	6500
Line Material	RL48	CC158
Chance	-	158
Locke	5004	0100
Oliver	9083	7550
Util. Service	31030	5531
Electrical Mfg. Co.	796 798	- -
Seyler	Same numbers as Locke	

* Note: A wrapped guy shall be used where guy tension exceeds 5,200 pounds.

w - Insulator, guy

Strength (lbs.)	10,000	10,000	10,000	10,000	20,000	20,000	10,000	20,000	25,000	30,000
Diam. hole (ins.)	3/8	1/2	5/8	3/4	3/4	7/8	1	1	1	1
Manufacturer:						Catalog Number:				
Ill. Elec. Prod.	---	---	534	536	---	---	---	538	540	---
Jeffery-Dewitt	---	---	2585	2586	---	---	---	2587	---	---
Pinco (Josl.)	---	---	---	1287	---	---	284	289	---	---
Lapp	---	---	5450	5451	---	---	5452	5452	---	---
Locke	---	---	7664	---	---	7665	---	---	---	7666
Ohio Brass	---	31350	---	31351	---	---	---	31352	---	---
Porc. Prod.	702	---	704	---	---	706	---	---	---	708
Thomas (Hubb.)	---	---	510	511	---	512	---	514	---	---
Westh's	---	530*	530	532	532	534*	534	534	534	536
Victor (L. M.)	---	---	552	554	---	---	---	556	---	---

* Has size larger hole but can be used for hole size shown.

x - Rod, anchor

Diam., inches	5/8	5/8	3/4	3/4	3/4	1	1	1
Length, feet	7	8	8	9	10	8	9	10
Manufacturer:				**Catalog Number:**				
Hubbard								
Thimbleye	6317	6318	6328	6329	6331	6338	6339	6340
Twineye	6347	6348	6358	6359	6360	6368	6369	6370
Joslyn								
Thimbleye	7417	7418	7428	7429	7430	7438	7439	7440
Twineye	7517	7518	7528	7529	7530	7538	7539	7540
Line Material								
Thimbleye	A-340023-2 & 6		A-340024-3, 8, & 9				A-340025-3, 5, & 4	
Twineye	Same as Chance with prefix "CC"							
Locke								
Thimbleye	5317	5318	5328	5329	5330	5338	5339	5340
Twineye	5347	5348	5358	5359	5360	5368	5369	5370
Thimbleye-Drive	3317	3318	3328	3329	3330	3338	-	3340
Twineye-Drive	-	-	3358	3359	-	3368	-	3370
Kearney								
Thimbleye	8607	8608	8708	8709	8710	8808	8809	8810
Twineye	-	-	8908	8909	8910	9008	9009	9010
Oliver								
Thimbleye	8607	8608	8708	8709	8710	8808	8809	8810
Twineye	-	-	8908	8909	8910	9008	9009	9010
Chance								
Thimbleye-Threaded	057	058	038	039	0310	018	019	010
Twineye-Threaded	-	-	0380	0390	-	0180	-	0100
Thimbleye-Drive	57	58	38	39	310	18	-	110
Twineye-Drive	-	-	380	390	-	180	-	1100

Diam. inches	5/8	5/8	3/4	3/4	3/4	1	1	1
Length, feet	7	8	8	9	10	8	9	10
Manufacturer:				Catalog Number:				
Util. Serv.								
Thimbleye	5025	5026	5029	5030	5031	5033	5033A	5034
Twineye	--	--	5037	5038	5038A	5040	5040A	5041
Electrical Mfg.								
Single eye	S584	S596	S696	S6108	S6120	S896	S8108	S8120
Double eye	---	---	DS696	DS6108	DS6120	DS896	DS8108	DS8120
Kortick								
Thimbleye	3317	3318	3328	3329	3330	3338	3339	3340
Twineye	3527	3528	3458	3459	3460	3468	3469	3470
Seyler	Same numbers as Locke							
Mastergrip	MR57	MR58	MR38					

Holding Power - lbs.	2500*	6000	8000	10000	12000
Min. Req'd Expanded Area - sq. in. (2, 3 or 4W & P)	-	90	100	120	135
Hole Diameter (max.), inches	6	8	8	8	8
Rod Diameter (min.), inches	-	5/8	5/8	3/4	3/4
Rod Length (min.), feet	-	7	7	8	-

Manufacturer:		Rock Guy Bolt Anchors	Catalog Number:				
Chance							
(1) Expanding	(2W)		-	-	826	-	-
(2) Expanding	(3W)		-	-	-	-	-
(3) Expanding	(4W)		-	745	846	84	8410
(4) Cone	(C)		-	8	10	12	-
(5) Screw	(S)		1586-S	-	-	-	-
(6) Rock	(R)		-	-	R-315	R-330	R-353
(7) Plate	(P)		-	-	1110	1125	1140
Wej-Lock							
(2)	(3W)		-	834-W	836-W	8310-W	-
(3)	(4W)		-	-	-	-	8412-W
Everstick							
(1)	(2W)		-	82	-	-	-
(2)	(3W)		-	834	836	8310	-
(3)	(4W)		-	-	-	84-3/4	-
(4)	(C)		-	8C	10C	12C	-
Util. Service							
(6)	(R)	5003	Same as Chance except prefix "C"				
			Same as Wej-Lock except prefix "C"				
Kearney							
(1)	(2W)		-	82090	7104	8120	-
(2)	(3W)		-	8090	8110	8125	-
(3)	(4W)		-	84090	84110	84125	84140
(5)	(S)		65-1	-	-	-	-
Specialty Devices							
(4)	(C)		-	8	10	12	-
(7)	(P)		-	15	-	-	-
Lewis							
(1)	(2W)		-	816	818	-	-

* To be used in guying services only.

(z)

Manufacturer:		Rock Guy Bolt Anchors	2500*	6000	8000	10000	12000
			Catalog Number:				
Joslyn							
(Chance 3)	(4W)		----	J3427	J3428	J2855	----
(" 4)	(C)		----	J2881	J2882	J2883	----
(" 5)	(S)		J2861	----	----	----	----
(" 6)	(R)		----	----	J3436	J3437	J3438
(" 7)	(P)		----	----	J3444	J3445	J3446
(Wej-Lock 2)	(3W)		----	----	J2876	J2877	----
(" 3)	(4W)		----	----	----	----	J2878
(Everstick 1)	(2W)		----	J1592	----	----	----
(" 2)	(3W)		----	J1677	J1678	J1679	----
(" 3)	(4W)		----	----	----	J1594 3/4	----
(" 4)	(C)		----	J1686	J1687	J1688	----
(6)	(R)	J6547					
Ill. Mall. (Superior)							
(1)	(2W)		----	----	82	----	----
(2)	(3W)		----	834	836	8310	----
(3)	(4W)		----	----	----	----	84 3/4
(4)	(C)		----	C-8	C-10	C-12	----
(5)	(S)		1645	----	----	----	----
Porc. Prod.			Same as Chance except prefix "C"				
Hubbard							
(1)	(2W)		Same as Chance and Wej-Lock except prefix "C"				
(5)	(S)		7526				
(6)	(R)	7547					
Line Material							
(1), (2) and (3)			Same as Everstick except suffix "W"				84-1W
(5)	(S)		B-200005-1				
(6)	(R)	SA46x1					
(7)	(P)		----	A200103-1	----	A200104-1	----
Wagner			Same as Everstick except suffix "W"				
Mastergrip							
(1)	(2W)		----	6290	72100	82120	82136
(2)	(3W)		----	----	834	836	----
Seyler							
(5)	(S)		6526				
(6)	(R)	6547					
Matthews							
(5)	(S)		2834				

* To be used in guying service only.

Manufacturer:	aa - Nut, eye, 5/8" Conv. eyelet		ab - Nut, thimbleye 5/8"	3/4"	ac - Brace sidearm diagonal $1\frac{1}{2}$" angle 3/16" x 5'	ad - Pin transf. #22 Scr. Wood
	Catalog Number:					
Hubbard	7502	7517	7510	7511	7981	126
Joslyn	1092	1126	6510	6511	1521	025
Line Material	1739	1741	A340010-1	A340010-2	9280	2311 2305
Chance	-	-	580	340	-	-
Locke	6502	6517	6510	6511	6981	026
Oliver	9460	9480	9440	9441	5171	3600
Util. Service	450	497	C580	C340	5210	587
Mastergrip	-	M7514	-	-	M7981	-
Inter. Derrick & Equipment Co.	-	14630	-	-	14061	-
Electrical Mfg. Co.	790	792	-	-	750	962
Seyler	Same numbers as Locke					
Kortick	4212	4411	3111	3112	1951	-

12244-aa to ad

ae - Lightning Arresters, distribution

Manufacturer:	Type	Catalog No.	Mounting	Catalog No.
Gen. Elec.	Pellet		Crossarm	*9LA10A 15
	Pellet		Crossarm	*9LA10A 25
	Pellet		Crossarm	*9LA10A 35
	Pellet		Crossarm	*9LA10A 185
	Pellet		Crossarm combination	*9LA10A 61
Elec. Service	Crystal Valve	50932-L	Crossarm	Type DH (59271)**
	Crystal Valve	50932-L	Crossarm combination	63600 (59261)**
	Crystal Valve	50932-L	Flat Surface	Type DA (51795)**
	Crystal Valve	50932-L	coupler to comb. bracket	Type DEA
			Only on arresters supplied to Line Material	67254 (500000)**
Joslyn	Expulsion	9231-P	Crossarm	9201-C or 9207
			Crossarm combination	9202-A
	Expulsion	9237-1	Crossarm	
Westinghouse	Type T-De-ion	1123911	Crossarm	1087204
	Type T-De-ion	1123911	Crossarm ($3\frac{1}{2}$x$4\frac{1}{2}$)	1087204 and U-bolt clamp #945174
Line Material	Type E		Crossarm	*B-305151-17
Hubbard	Autogap	#2302	Crossarm	2304
			Crossarm	2308
			Crossarm	2309

* Catalog number includes arrester and mounting bracket.

** Numbers in parentheses are shop Part Numbers for corresponding catalog numbers.

Kv. Class	2.3 Delta	7.2 Delta	7.2/12.5 Wye	15	23	34.5 Delta	46	69
Manufacturer:				**Catalog Number:**				
Gen. Electric								
Line Type	9LA10A2	9LA10A5	9LA10A5	9LA10A7	9LA2D60	9LA2D62	9LA2D64	9LA2D66
Station Type	9LA1E17	9LA1E19	9LA1E20	9LA1E27	9LA1E29	9LA1E31	9LA1E33	9LA1E35
Westinghouse								
Line Type	1151585	1123911	1123911	1198787	1225401	1225403	1225405	1225407
Station Type	1151601	1151603	1151604	1151605	1151607	1151609	1151611	1151613
Joslyn								
Line Type	9211P	9231P	9231P	----	----	----	----	----
Elec. Serv.								
Line Type	50927-L	50932-L	50932-L	50934-L	----	----	----	----
Line Material								
Line Type	----	B-305151-24	B-305151-24	B-305151-26	----	----	----	----

af - Cutout, fuse, single-shot, enclosed - Distribution

Manufacturer:	Mounting:	Catalog Number: 50 Amps.	100 Amps.
General Electric	Crossarm combination	9F6A254	-
	Crossarm	9F6A24	-
	Flat surface	9F6A204	-
	Bushing mounted	9F6B1	-
Kearney	Crossarm or combination	5770-10	5770-20
Line Material	Crossarm or combination	C230004-6	C230005-6
	Bushing mounted	C230152-6	-
	Flat surface	FUA-1024	-
Westinghouse	Cutout without bracket	1196201	-
	Crossarm bracket	1196213	-
	Crossarm combination	1123956	-
Matthews	Crossarm or combination	23	-
Rwy. & Ind. Eng.	Crossarm or combination	21491	-
Schweitzer & Conrad	Crossarm or combination	60801	60811
Porcelain Products	Crossarm or combination	3456	-

af - Cutout, fuse, single-shot, open - Distribution

Manufacturer:	Mounting:	Catalog Number: 50 Amps.	Catalog Number: 100 Amps.
General Electric	Cutout (tubeless)	9F17A5	-
	Crossarm	9F3E2	9F3E3
	Bushing Mounted	9F3E20	-
Kearney	Crossarm	6484-1 (trip-o-link)	6401
	Crossarm	-	1187-5
	Bushing Mounted	6486	-
Line Material	Crossarm	C230150-6	C230150-10
	Flat Surface	B230063-18	B230063-22
	Bushing Mounted	C230105-1	-
	Cutout	C230106-2 (open-link)	-
Westinghouse	Cutout without bracket	1124278	1124279
	Crossarm bracket	1124274	1124274
	Crossarm combination	1124275	1124275
Matthews	Crossarm	1640 (protectolink)	1452-4
Rwy. & Ind. Eng.	Crossarm	-	19862
	Crossarm	-	20066
Schweitzer & Conrad	Crossarm	68611K	68611K
	Crossarm	59991-K (open-link)	-
Southern States	Crossarm	373601	-
Porcelain Products	Cutout without bracket	2711	2731
	Crossarm bracket	Type C	Type C
Joslyn	Crossarm	9237-1 (arrester and cutout combination)	

af - Cutout, fuse, single-shot - Substation
(As required by REA, these cutouts meet NEMA "Power Switching Equipment Standards")

KV Class		15	23	34.5	46	69
Manufacturer:	Type:	Catalog Number:				
General Electric	Fiber tube, drop-out	6129026G2	6129026G3	6129026G4	6129026G5	6129026G6
	Gas deflectors	6029680P1	Same for all classes			
	Fuse unit	EG-1	Same for all classes			
Westinghouse	Fiber tube, drop-out	1081042	-	-	-	-
	Fiber tube, drop-out	1081043	-	-	-	-
	BA-200 De-ion mounting	825627	825628	1043289	-	-
	BA-200 fuse holder	ØØ 825630	ØØ 825631	ØØ 1043291	-	-
	DBA-1 drop-out	Ø 1227172	Ø 1227173	Ø 1227174	Ø 1227175	Ø 1227176
Schweitzer & Conrad	Fiber tube, drop-out	68062	68063	-	-	-
	Fiber tube, drop-out	68161	68163	-	-	-
	High capacity liquid	*21742	*21743	*21744	*21745	*21746
	Clips	DC	Same for all classes			
Line Material	Fiber tube, drop-out	C230081-11	-	-	-	-
	Fiber tube, drop-out	C230081-12	-	-	-	-
	High capacity liquid	**B68048	Same for all classes			
Kearney	Fiber tube, drop-out	6445	5759	5764	-	-
Matthews	Fiber tube, drop-out	1358-5	1368-5	-	-	-
Rwy. & Ind. Eng.	Fiber tube, drop-out	19882	19883	-	-	-
Delta Star	B-3V Form 34	672321-4-S	672331-4-S	672351-4-S	672361-4-S	672382-4-S

* Is number of fuse mounting only. Fuses and clips must be ordered separately.
** Is number of fuse mounting only. Fuses and clips must be ordered separately. Use S & C fuses and clips.

Ø Is style number of fuse mounting and fittings only. Fuse must be ordered separately.
ØØ Is style number of fuse holder only. Refill must be ordered separately.

ag - Cutout, fuse, 3-shot, open-line Sectionalizing

Voltage Rating Current Rating		7.2/12.5-KV. 50-amp.	7.2/12.5-KV. 100-amp.
Manufacturer:	Mounting:	Catalog Number:	
Kearney	Crossarm	- -	6867-1 7449
Line Material	Crossarm	-	C-230033-10 (RLO Type)
Schweitzer & Conrad	Crossarm Double Crossarm	68651-K QA24501-S	68651-K -
Rwy. & Ind. Eng.	Crossarm	-	23628
Southern States	Crossarm	14701	14701-C
Matthews	Crossarm	1810	1810-X

ag - Cutout, fuse, 3-shot, open-Substation

Voltage Rating		15-Kv.	15-Kv.
Current "		50-amp.	100- amp.
Manufacturer:	Mounting:	Catalog Number:	
Kearney	Channel Base	-------	6875-1
Line Material	" "	-------	C-230015-14
Schweitzer & Conrad	" "	68322-S	68332-S
Rwy. & Ind. Eng.	" "	-------	23937
Southern States	" "	177101	177101-C
Matthews	" "	------	1840

Note: In accordance with REA requirements, the cutouts above conform to "N.E.M.A. Power Switching Equipment Standards."

ah - Brackets, cutout and arrester

	Cutout		Arrester	
Manufacturer:	Crossarm	Pole	Crossarm	Pole
General Electric	Cutout number includes bracket		Arrester number includes bracket	
Kearney	Cutout number includes bracket		-	
Line Material	Cutout number includes bracket		Arrester number includes bracket	
Westinghouse	1124274	1124276	1087204	10872404
Matthews	Cutout number includes bracket		-	-
R. & I. E.	Cutout number includes bracket		-	-
Schweitzer & Conrad	Cutout number includes bracket		-	-
Southern States	Cutout number includes bracket		-	-
Joslyn	-	-	9207	9203-C
Electric Service	-	-	Type DH	Type DAL

Ground Rods

Diameter (inches)	5/8	5/8	5/8	3/4	3/4	3/4	1	1	1
Length (feet)	8	9	10	12	16	18	16	18	20
Manufacturer:					Catalog Number:				
Hubbard (Cu. Wld)	9438	9439	9440	9452	9456	9458	9476	9478	9479
Oliver (Cu. Wld)	Same as "Hubbard"								
Joslyn (Cu. Wld)	8338	8339	8340	8352	8356	8358	8376	8378	8379
Line Material (Bridgeport)	119952	119953	119954	119961	119989	119991	119996	119998	119970
Locke (Cu. Wld)	8438	8439	8440	8452	8456	8458	8476	8478	8479
Anaconda	GR1848	GR1849	GR18410	GR18512	GR18516	GR18518	GR18716	GR18718	GR18720
Phelps Dodge	BR38	BR39	BR310	BR412	BR416	----	BR616	BR618	BR620
Util. Service (Cu. Wld)	5617	5618	5619	5637	5641	5643	5656	5658	5660
Ideco	CT508	CT509	CT510	CT612	CT616	CT618	CT816	CT818	CT820
M. & W. Elec. Mfg.	1000*	----	----	----	----	----	----	----	----

Butt Grounds

Joslyn	Preformed Ground - #6 Copper, 8 turns
Mastergrip	"Groundex" plate ground - M X 760

* War Standard Item (acceptance good for duration and ninety days thereafter).

aj - Clamp, ground rod

Size (rod diam. inches)	5/8"	3/4"	1"
Manufacturer:		Catalog Number:	
Hubbard	6492	6493	9495
Oliver	Same as "Hubbard"		
Joslyn	3992	3993	8395
Line Material	126492 LMCO 5/8	126493 LMCO 3/4	9997
Locke	5592	5593	8495
Anaconda	GRLS-5	GRLS-6	GRLS-8
Reliable	E58	E68	----
Burndy	GH635	GH64	GH65
Sherman	GF-17	----	----
Blackburn	GG-5/8	GG-3/4	----
Util. Serv.	6667	5668	5669
Phelps Dodge	TC53	TC54	TC56
Weaver	WB5/8	WB3/4	----
Anderson	GC101-01	GC101-02	GC101-03
K & H	85	----	----
Seyler	Same numbers as Locke		
Kearney	9957-11	9957-12	----

12244-aj

al - Staples, ground wire

Required Dimensions 9 Ga. x $1\frac{1}{2}$" long x 3/16" spread

Manufacturer:	Catalog Number:
Hubbard	8533
Joslyn	1671
Line Material	9802
Locke	7511 3/4
Oliver	9792
Util. Serv.	-
Copperweld	-
Electrical Mfg. Co.	652

an - Transformer, distribution, 7.2/12.5-kv

KVA Capacity:	--	1½	3	5	7½	10	15
Manufacturer:	Type:			Catalog Number:			
Allis Chalmers	HAE	Order by description and rating					
General Electric	HA or HSA (with LA & Bushing Mtd. open-type cutout)	31H737	31H738	31H739	31H740	31H741	31H742
	HA or HSA (with LA & Bushing Mtd. enclosed cutout)	22H782	22H783	22H784	22H785	22H786	22H787
	H Rural	22H94	22H95	22H96	22H97	22H98	72x661
	HBA Rural	21H664	21H665	21H666	21H667	21H668	21H669
	H with Int. Fuse	22H450	22H451	22H452	22H453	22H454	22H455
	H with Int. Fuse & Open Gap	22H394	22H395	22H396	22H397	22H398	22H399
Kuhlman	Rural RR	6139RR	6140RR	6141RR	6142RR	6143RR	6144RR
	RRFG with Int. Fuse & Open Gap	6139RRFG	6140RRFG	6141RRFG	6142RRFG	6143RRFG	6144RRFG
	CSP	6139RRC	6140RRC	6141RRC	6142RRC	6143RRC	6144RRC
Line Material	LA Rural	11T1R	11T2R	11T3R	11T4R	11T5R	11T6R
	CSP	11T1R3i	11T2R3i	11T3R3i	11T4R3i	11T5R3i	11T6R3i
	LA with Int. Fuse	11T1RKL	11T2RKL	11T3RKL	11T4RKL	11T5RKL	11T6RKL
	LA with Int. Fuse & Open Gap	L-11T1RF	L-11T2RF	L-11T3RF	L-11T4RF	L-11T5RF	L-11T6RF
Moloney	HE Pivot	Order by description and rating					
	CSP	Order by description and rating					
Wagner	HEB-F	Order by description and rating. Specify Tank "TC-13128."					
	HEB-F with Int. Fuse	Refer to drawing No. TC-16565					
	HEB-F with Int. Fuse & Open Gap	Refer to drawing No. TC-16342					
	HEB-F-EP	Refer to drawing No. TC-16623					
	HEB-F-P	Refer to drawing No. TC-17152					
Westinghouse	S, Class-B-2	1C6-003	2C6-003	3C6-003	4C6-003	5C6-003	6C6-003
	CSP, " "	1C6-203	2C6-203	3C6-203	4C6-203	5C6-203	6C6-203
	S with Int. Fuse	1C6-703	2C6-703	3C6-703	4C6-703	5C6-703	6C6-703
	S with Int. Fuse & Open Gap	1C6-803	2C6-803	3C6-803	4C6-803	5C6-803	6C6-803
Standard	AR	Order by description and rating. Specify round tank.					

ao - Bolt, thimbleye, straight

Size (in. diam. x in. lg.)	5/8x8	5/8x10	5/8x12	3/4x8	3/4x10	3/4x12
Manufacturer:			Catalog Number:			
Hubbard	6508	6510	6512	6608	6610	6612
Joslyn	8050 8408	8051 8410	8052 8412	8060 -	8061 -	8062 -
Chance	5885	58105	58125	3485	34105	34125
Line Material	Same as "Chance" with prefix "CC."					
Locke	5508	5510	5512	5608	5610	5612
Oliver	6748	6750	6752	6848	6850	6852
Util. Service	5127	5128	5129	5134	5134A	5135
Seyler	Same numbers as "Locke"					
Kortick	3215	3216	3217	3235	3236	3237
Electrical Mfg. Co.*	S508	S510	S512	S608	S610	S612

* Strand eye

ap - Clamp, hot line

Copper Conductor								
Gauge	00x7	00	0x7	0	2x3	2	4	6
Diameter, inches	0.414	0.365	0.368	0.325	0.320	0.258	0.204	0.162
Manufacturer:				Catalog Number:				
Tips	S1725CC	S1725CC	S1725CC	S1725CC	S1725CC	S1715CC	S1715CC	S1715CC
Fargo	XK9C	Same for all sizes						
Line Material	Same as Fargo							
Burndy	HTE 262C	Same for all sizes						
Kearney	1700-20	1700-20	3517	3517	3517	3517	3517	3517
Fulton Sylphon Co.	-	-	-	-	701	701	701	701
Weaver	WS or WSB	Same for all sizes						
Southern States	WC-50-48	WC-50-48	WC-50-48	WC-50-48	WC-50-48	WC-50-48	WC-50-48	-
Matthews	5944	Same for all sizes						
Mastergrip	Same numbers as Weaver							
Bodendieck	425CC	425CC	425CC	425CC	400CC	400CC	400CC	400CC
Delta Star*	LGE-101	Same for all sizes						
Reliable	596C	596C	596C	596C	328C	328C	328C	328C
Royal Electric	10700	Same for all sizes						

* For use on substations only.

ap - Clamp, hot line

Cwld.-Copper Conductor:	30% EHS						40% HS
Gauge	3#6	4A	6A	8A	8C	9½D	3#12
Diameter, inches	0.349	0.290	0.230	0.199	0.179	0.174	0.174
Manufacturer:				Catalog Number:			
Tips	S1725CC	S1715CC	S1715CC	S1715CC	S1715CC	S1715CC	S1715CC
Fargo	XK9C	Same for all sizes					
Line Material	Same as Fargo						
Burndy	HTE 262C	Same for all sizes					
Kearney	3517	Same for all sizes					
Weaver	WS or WSB	Same for all sizes					
Southern States	WC-50-48	WC-50-48	WC-50-48	WC-50-48	-	-	-
Matthews	5944	Same for all sizes					
Mastergrip	Same as Weaver						
Bodendieck	425CC	400CC	400CC	400CC	400CC	400CC	400CC
Delta Star*	LGE-101	Same for all sizes					
Fulton Sylphon Co.	-	701	701	701	701	701	701
Reliable	596C	328C	328C	328C	328C	328C	328C
Royal Electric	10700	Same for all sizes					

* For use on substations only

A.C.S.R.							
Gauge		2/0-6/1	1/0-6/1	2-7/1	2-6/1	4-7/1	4-6/1
Diam., inches, bare		0.447	0.398	0.325	0.316	0.257	0.250
Diam., inches, plus rods		0.835	0.744	0.595	0.586	0.555	0.548
Manufacturer:				Catalog Number:			
Tips	AA*	S1735AA	S1735AA	S1720AA	S1720AA	S1720AA	S1720AA
	AC*	S1735AC	S1735AC	S1720AC	S1720AC	S1720AC	S1720AC
Fargo	AA*	-	-	K6A	K6A	XK9A	XK9A
	AC*	-	-	K6AC	K6AC	XK9AC	XK9AC
Line Material		Same as Fargo					
Burndy	AC*	HTE40R25	HTE40R25	HTE30R25	HTE30R25	HTE30R25	HTE30R25
Kearney	AA*	3520-2	3520-2	1700-21	1700-21	1700-21	1700-21
	AC*	3520-1	3520-1	1700-22	1700-22	1700-22	1700-22
Bodendieck	AA*	625AA	530AA	530AA	530AA	530AA	530AA
	AC*	635AC	530AC	530AC	530AC	530AC	530AC
Johnson	AA*	J450	J450A	J450A	J450A	J404A	J404A
	AC*	Same as for AA* except add suffix "C"					
Weaver	AA*	-	WSB-C	Same for remaining sizes			
	AC*	-	WSB-C	Same for remaining sizes			
Southern States	AA*	-	-	WA-56-50	WA-56-50	WA-50-48	WA-50-48
	AC*	-	-	WB-56-50	WB-56-50	WB-50-48	WB-50-48
Mastergrip		Same as Weaver					

AA* - Indicates connection from Al over armor rods to Al.
AC* - Indicates connection from Al over armor rods to Cu. or Cwld.

A.C.S.R.		2/0-6/1	1/0-6/1	2-7/1	2-6/1	4-7/1	4-6/1
Manufacturer:				Catalog Number:			
Reliable	AA	-	-	596CP	596CP	596CP	596CP

ap - Clamp, hot line

(As recommended by conductor manufacturers)

Amersteel, Crapo & Ruralductor	4	6	8

Amerductor Conductor

Gauge	4	6	8	8X	9X	10	12
Diam., inches	0.310	0.248	0.196	0.216	0.192	0.220	0.175

Manufacturer:		Catalog Number:		
Kearney	AA	1700-21	3517-1	Same for remaining sizes
	AC	1700-22	3517-2	Same for remaining sizes
Chance	AA	S-1725AA	Same for remaining sizes	
	AC	S-1725AC	Same for remaining sizes	
Line Material (Chance)	AA	S-1725AA	Same for remaining sizes	
	AC	S-1725AC	Same for remaining sizes	
Reliable		328CP	Same for remaining sizes	
Bodendieck		425GP	Same for remaining sizes	

ar - Wire Holder

Type	With #22 Wood Screw	With 3/8" x 5" Bolt
Manufacturer:	Catalog Number:	
Hubbard	4-11-44	7-11-72
Joslyn	089 090	079
Line Material	3-3-3 3-4-3	3-8-5
Locke	0611-44 0611-46	0611-42
Porc. Prod.	1970 1980	----
Oliver	2515 2510	----
Lectrolite	1100	----
Mastergrip	Same as Lectrolite	
Util. Serv.	1945	1947
Seyler	3-11-44	
Kearney	8516	
Elec. Mfg. Co.	70	

as - Clevis, service, swinging, insulated

Manufacturer:	Catalog Number: Insulator	Clevis
Hubbard	1706 1606	2938 2948
Joslyn	150 100	1624 1626
Line Material	670 674	102938 ----
Locke	0706 0606	1938 1948
Porc. Prod.	5107 5207	---- 1990
Oliver	2400 2300	4440 4441
Util. Serv.	208 207	31003 31004
Electrical Mfg. Co.	201 211	617 647
Seyler	Same numbers as Locke	

Description	Full Round, 8 ft. long x 18 ga. min.
Manufacturer:	**Catalog Number:**
Hubbard	7658
Joslyn	1618
Line Material	SD-128 SD-128-MB
Locke	6598
Oliver	1385
Specialty Devices	8180SG 8180MB
Util. Service	8118
Matthews	8118
Kearney	5286-1
Seyler	6598
Kortick	SD28SP
Weaver	JAW

ba - Bolt, thimbleye, angle

Size (in. diam. x in. lg.)	5/8x8	5/8x10	5/8x12	3/4x8	3/4x10	3/4x12
Manufacturer:			Catalog Number:			
Hubbard	6008	6010	6012	6108	6110	6112
Joslyn	8150	8151	8152	8160	8161	8162
Chance	5885A	58105A	58125A	3485A	34105A	34225A
Line Material	Same as "Chance" with prefix "CC"					
Locke	5008	5010	5012	5108	5110	5112
Oliver	7650	7651	7652	7750	7751	7752
Util. Service	5140	5140	5142	5146	5147	5148
Seyler	Same numbers as Locke					
Kortick	3255	3256	3257	3275	3276	3277
Electrical Mfg.*	S508A	S510A	S512A	S608A	S610A	S612A

* Strand eye

Manufacturer:	bb - Brace, sidearm vertical 24-in. spacing 2-arm	bb - Brace, sidearm vertical 24-in. spacing 3-arm	bc - Bracket, pole, primary Catalog Number:
Hubbard	7986	7987	152
Joslyn	1536	1537	052
Line Material	9271	9275	SA74x1
Locke	6986	6987	052
Oliver	5163	5164	1520
Util. Service	5249	5250	644
Mastergrip	M7986	M7987	-
Inter. Derrick & Equipment Co.	14040	14041	-
Electrical Mfg. Co.	766	767	-
Seyler	6986	6987	052
Kortick	1931	1932	-

be - Circuit Breaker, 3-shot, Automatic Oil

Manufacturer:	Catalog Number:			
	7.2/12.5 kv		15 kv	
	1-ϕ	3-ϕ	1-ϕ	3-ϕ
General Electric	FP-119	-	FP-119	-
Pacific Electric	AP-1-1T	AP-1-3T	AP-2-1T	AP-2-3T AP-40-3
Westinghouse	AR-1*	-	AR-1*	-
Line Material	HA1-C	-	HA1-C	-

* Specify Amp. rating desired.

bh - Clevis, service deadend, insulated

Manufacturer:

Hubbard	1341
Joslyn	0341
Line Material	1757
Locke	0341
Oliver	4410
Porcelain Products	1442
Util. Service	31136
Mastergrip	901
Thomas	13205
Elec. Mfg. Co.	600
Seyler	0341

bj - Guy hook

4"x1-3/4"x3/8", 11/16" hole

Manufacturer:	Catalog Number:
Hubbard	7584
Joslyn	1019
Line Material	9502
Locke	6584
Oliver	9041
Util. Service	5310
Mastergrip	M7584
Inter. Derrick & Equipment Co.	14611
Electrical Mfg. Co.	835
Seyler	6584
Kortick	4031

bk - Guy Plate

Manufacturer:	Catalog Number:	
	Strain type 4"x8"x14 gauge	Lift type $2\frac{1}{2}$"x7"x$\frac{1}{4}$", 2 hole
Hubbard	7575	8888
Joslyn	1034	7894
Line Material	9515	CC434
Locke	6575	7888
Oliver	9050	6967
Util. Service	5351	C334
Mastergrip	M7575	-
Inter. Derrick & Equip. Co.	14160	-
Electrical Mfg. Co.	585	525
Seyler	6575	7898 (3 hole)
Kortick	4015	3511

b1 - Thimble, Dead-End
(For A.C.S.R. only. See note on Drwg. M42-10)
All items listed shall have 5/8" cotter bolts

Manufacturer:	Catalog Number:
Hubbard	675
Joslyn	565
Line Material	SA9x1 (M.1.) SA9x2 (Alum.)
Locke	80425 575
Porc. Prod.	---
Oliver	4258
Util. Serv.	31257
Ohio Brass	80425
Aluminum Co.	----
Brewer - Titchener	2400
Seyler	80425 575

bm - Thimbles, Guy 5/8 in.
(For use on Cu., Cwld., A.C.S.R., Amerductor, Amersteel, Ruralductor and Crapo Deadends)
(See Dwgs. M42-1, M42-2, and M42-10)

Manufacturer:	Catalog Number:
Hubbard	7595 7695
Joslyn	J1059 *575 (combination thimble and clevis)
Line Material	9507 *1747 (combination thimble and clevis)
Locke	6595 *573 (combination thimble and clevis)
Oliver	9032
Util. Service	5411
Mastergrip	M7595
Inter. Derrick & Equip. Co.	14622
Seyler	6595
Kortick	4063

* This combination includes both the guy thimble and the anchor shackle "bo."

bn - Clamp, loop deadend
(For A.C.S.R. only. See Dwg. M42-10)

Aluminum Conductor

Gauge	2/0-6/1	1/0-6/1	2-7/1	2-6/1	4-7/1	4-6/1	6-6/1
Diam. Bare (inches)	0.447	0.398	0.325	0.316	0.257	0.250	0.198
Manufacturer:			Catalog Number:				
Hubbard	-	-	4466	4466	4466	4466	-
Joslyn	-	J1413	J1412	J1412	J1412	J1412	-
Line Material	-	-	CL9x1	CL9x1	CL9x2	CL9x2	-
Alum. Co. of Amer.	-	413	412	412	411 412	411 412	-
Anderson	LC703-3	LC702-2	LC-71	LC-71	LC-71	LC-71	LC-71
Locke	-	-	3466	3466	3466	3466	-
Seyler	Same numbers as Locke						

12244-bn

bo - Shackles, anchor
(For use on Cu., Cwld., A.C.S.R. and Amerductor deadends
See Dwg. M42-1, M42-2, and M42-10)
All items listed shall have 5/8" cotter bolts

Manufacturer:	Catalog Number:
Hubbard	6801
Joslyn	L1349 *575 (combination thimble and clevis)
Line Material	V3020 *1747 (combination thimble and clevis)
Locke	5801 *573 (combination thimble and clevis)
Oliver	1435
Util. Service	4106
Ohio Brass	13722
Westinghouse	437079-A
Jeffery-Dewitt	1650 1641
Thomas	5490 T-3
Brewer Titchener	3022
Seyler	5801 *573 (combination thimble and clevis)
Kortick	4481

* This combination includes both the guy thimble "bm" and the anchor shackle.

bs - Bolts, single upset, insulated
(For use on neutral conductor only)
(See Dwg. M25-1 and M25-2)

Manufacturer:

	Insulator (wet process) 1-3/4" Groove	3" Groove	Bolt diam. / Bolt length	5/8" 6"	5/8" 7"	5/8" 8"	5/8" 9"	5/8" 10"
Hubbard	455	1716		-	-	8741	-	8742
Joslyn	151	0101		-	-	2342½	2343½	2344½
Line Material	684	693		-	-	-	1401-2	1402-2
Locke	355 24205	0716		7739	7740	7741	7741½	7742
Oliver	2100	2104		-	-	7508	7509	7510
Util. Service	205	-		-	-	31053	-	31054
Lewis	-	-		-	-	7508	7509	7510
Electrical Mfg. Co.	-	-		-	-	U508	U509	U510
Seyler	Same numbers as Locke							

Manufacturer:	Catalog Number: 8-in. Spacing 2-wire	3-wire
Hubbard	2748	3748
Joslyn	2648	3648
Line Material	21028	21038
Locke	1748	2748
Oliver	2328	2338
Lectrolite	2002	2003
Mastergrip	Same as Lectrolite	
Electrical Mfg. Co.	5280	5380
Seyler	Same as Locke	

cg - Switches, pole top, air-break, gang-operated
(Switches must conform with NEMA "Power Switching Equipment Standards")

Manufacturer:	Kv.	Amp.	Catalog Number: 2-Insulator	3-Insulator
Schweitzer & Conrad	15*	200	49222-Spl.	49232
	15	400	49422-Spl.	49432
	23	200	49223-Spl.	49233
	23	400	49423-Spl.	49433
	34.5	200	49224-Spl.	49234
	34.5	400	49424-Spl.	49434
	Over 34.5		PRH	
Westinghouse	15*	200	1114674**	1114662**
	15	400	1123855	1392124
	15	600		1392125
	23	200	1114676**	1114667**
	23	400	1123858	1392128
	23	600		1392129
	34.5	200	1114677**	1114668**
	34.5	400	1123864	1392132
	34.5	600		1392133
	46	600		1392136
	69	600		1392138
Rwy. & Ind. Eng.	15*	200	23363**	22776**
	23	200	23364**	22777**
	34.5	200	23366**	22779**
Line Material	15*	200	C-40429-8	C-40434-5
	15	400	C-40429-10	C-40434-6
	23	200	C-40429-50	C-40434-9
	23	400	C-40429-52	C-40434-10
	34.5	200	C-40429-56	C-40434-13
	34.5	400	C-40429-58	C-40434-14
	34.5	600	C-40429-60	C-40355-19
	46	600	C-40429-36	C-40355-23
	69	600	C-40429-66	C-40355-34
Electric Power Equip. Corp.	15*	200	35161-S	35171
	23	200	35162-S	35172
	34.5	200	35163-S	35173

* Use 15 Kv switches on 7.2/12.5 Kv Wye voltages.
** Order with NEMA Standard insulators and steel shaft.

Manufacturer:	Kv.	Amp.	Catalog Number: 2-Insulator	3-Insulator
Delta Star	15*	200	623320Spl.	625320Spl.
	"	400	528010Spl.	900310
	23	200	623330Spl.	625330Spl.
	"	400	528020Spl.	900320
	34.5	200	623350Spl.	625350Spl.
	"	400	528035Spl.	900340
	46	400	528040Spl.	
Memco	15*	200	18772A	18742
	23	400	18773A	18472
	34.5	400	18775A	18474
	46	400	18315A	18475
	69	400		18477
General Electric	15*	200	6052366G2	6052362G2
	"	400	6052757G6	6052757G2
	23	200	6052366G3	6052362G3
	"	400	6159202G3	6159200G3
	34.5	200	6052366G5	6052362G5
	"	400	6159202G4	6159200G4
	46	600		6159200G11
	69	600		6159200G12
Southern States	15*	200	30404Spl.	30504
	"	400	30405Spl.	30505
	23	200	30408Spl.	30508
	"	400	30409Spl.	30509
	34.5	200	30416Spl.	30516
	"	400	30417Spl.	30517
	"	600	30418Spl.	30518
	46	600		30520
	69	600		30524

* Use 15-Kv. switches on 7.2/12.5-Kv.Wye voltages

Manufacturer:	Kv.	Amp.	Catalog Number: 2-Insulator	3-Insulator
Kearney	15*	200	SP6455-3	6455-33
	15	400	SP6456-3	6456-33
	23	200	SP6457-3	6457-33
	23	400	SP6458-3	6458-33
	34.5	200	SP6459-3	
	34.5	400	SP6460-3	7542-33
	34.5	600		7543-33
	46	600		7546-33
	69	600		7552-33
Pacific Elec.	15*	200	PS-13055	PS-13005
	15	400	S-9106	S-9006
	15	600	S-9107	S-9007
	23	200	PS-13060	PS-13010
	23	400	S-9111	S-9011
	23	600	S-9112	S-9012
	34.5	200	PS-13070	PS-13020
	34.5	400	S-9166	S-9066
	34.5	600	S-9167	S-9067
	46	600	S-9122	S-9022
	69	600	S-9142	S-9042
Royal Electric	15	400		7559

* Use 15 Kv switches on 7.2/12.5 Kv Wye voltages

Note: When ordering Pacific Elec. Mfg. Co.'s 2-insulator switches, state that extension link for supporting pantograph must be supplied as part of switch.

ch - Fuse links

Whenever possible, the following recommendations in regard to fuse links should be observed.

(1) That the cutouts and links on a project be of the same manufacture.

(2) That only one make of cutout and fuse link be installed on a project in order to obtain the best possible fuse coordination.

ci - Clevis, thimble, side-opening
All items listed shall have 5/8" cotter bolts
(For use on Cu. or Cwld.-Cu., Amerductor or Steel only, as shown on Drwg. M41-1)

Numbers listed will accommodate: #6- #2/0x7, Solid Copper
3#12- 3#6, Copperweld Copper
#12- #4, Amerductor

Manufacturer:	Catalog Number:
Hubbard	674
Joslyn (Pinco)	L-4096
Victor (Line Material)	V-2282
Locke	42400
Oliver	-
Porc. Prod.	7532
Util. Service	-
Ohio Brass	82825
Thomas	15051
Jeffery-Dewitt	5028
Westinghouse	968755
Electrical Mfg. Co.	595-T
Seyler	574
Lapp	22525

ck - Clamp, Anchor Rod Bonding

Diam. of Rod	5/8"	3/4"	1"
Manufacturer:		Catalog Number:	
Hubbard			
Single eye	4143	4143	4143
Twineye	-	4145	4145
Joslyn			
Single eye	3230	3230	3230
Twineye	-	3231	3232
Tripleye	-	3233	3233
Line Material			
Single eye	A221004-1	A221004-1	-
Twineye	-	A221005-1	A221005-2
Locke			
Single eye	3143	3143	3143
Twineye	-	9143	9143
Chance			
Single eye	G5060	G5060	-
Twineye	-	G5061	G5061
Seyler	Same numbers as Locke		
Oliver			
Single eye	9123	9123	9123
Twineye	-	9122	9122

c1 - Gap, Lightning Protection

(Accepted use only in conjunction with Oil Circuit Breakers and Conventional Transformers.)

Manufacturers:	Type:	Catalog Number:
Jas. R. Kearney Company	Trip-O-Gap	12525-5
	Double Spill Gap	12823
Line Material Company	SGF Expulsion Gap	C-305189-4
W. N. Matthews Corporation	Ring Gap	6069

cm - Insulator, spool

Type:	Secondary		Service
Groove Diam.	1-3/4"	3"	1-3/8"
Manufacturer:		Catalog Number:	
Hubbard	455	1716	1606 (dry)* 1706 (wet)*
Joslyn	151	0101	100 (dry)* 150 (wet)*
Line Material	684	693	670 (dry)* 674 (wet)*
Locke	24205 355	0716 33013	0606 (dry)* 0608 (wet)*
Oliver	2100	2104	2300 (dry)* 2400 (wet)*
Electrical Mfg. Co.	210	218	201 (dry)* 211 (wet)*
Westinghouse	816681	1028123	881845 (dry)* 881844 (wet)*
Ill. Elec. Porc.	101	96	100DP (dry)* 100WP (wet)*

* "Wet" and "Dry" designations refer only to service spools.

All secondary spools listed are wet process.

12244 -cm-1

(cm)

Type:	Secondary		Service
Groove Diam.	1 3/4"	3"	1 3/8"
Manufacturer:		Catalog Number:	
Porc. Prod.	5101	5119	5107 (dry)* 5207 (wet)*
Util. Serv.	205	----	207 (dry) 208 (wet)
Lectrolite	6000	----	5001 (dry) 6001 (wet)
Jeffery Dewitt Insulator Co.	----	2383	2379 (wet)
Mastergrip	6000	----	5001 (dry) 6001 (wet)
Ohio Brass	36361	----	36139 (wet)
Thomas	5897W	12202	6997 D (dry) 6997 W (wet)
Seyler	24205 355	0716	0606 (dry) 0706 (wet)

* "Wet" and "Dry" designations refer only to service spools.
All secondary spools listed are wet process.

12244-cm-2

Secondary Fuses, Cutouts

Manufacturer:	Refuseable Type Catalog No.	Non-Refuseable Type Catalog No.
Line Material	FUA1503	
W. N. Matthews Corp.	2100-1	CTS
General Electric Company	9F7A1	9F13B
Schweitzer and Conrad	221120	
Bussman	JAB	

cp - Sleeve, compression deadend

Copper & CWC

Gauge	2x3	4	6	6A	8A	8C, 9½D, 3 #12
Diam. (inches)	.320	.204	.162	.230	.199	.174
Nat. Tel. Sup. Co.	71-258/3x	71-204-P	71-162J	71-6A-P	71-8A-P	71-3/081 M

Amerductor

Gauge	4	6	8	8X	9X	10	12
Diam. (inches)	.310	.248	.196	.216	.192	.220	.175
Nat. Tel. Sup. Co.			72-8SC-P				72-12SC-P

Ruralductor

Gauge	4	6	8
Diam. (inches)	.297	.252	.207
Nat. Tel. Sup. Co.	75-238/3W	75-203/3S	75-165/3L

cq - Sleeve, offset splicing
(For use on secondary deadends only)

Copper & CWC:

Gauge	2x3	4	6	6A	8A	8C, 9½D 3#12
Diam. (inches)	.320	.204	.162	.230	.199	.174
Nat. Tel. Sup. Co.	---	91-204-P	91-162J	91-6A-P	91-8A-P	91-3/081M

cx - Sleeve, splicing, single oval tube

Copper & Copperweld Copper:

Gauge	0x7	2x3	4	6	6A	8A	8C	9½D	3 #12
Diam. (inches)	.368	.320	.204	.162	.230	.199	.179	.174	.174

Manufacturer:

Wolverine	ST 7	ST 8	ST 12	ST 13	ST 11	ST 12	ST 20	ST 20	ST 20
Burndy	VS 25	VS 2C	VS 5C	----	VS 6A	VS 8A	VS 8A	VS 8A	VS 8A
Memco	63	62	58	56	170	168	157	157	118
Penn Union	130	129	125	124	C126	C125	C125	C125	C125
Sherman	016	015	011	09	C012	C010	----	W010	W010
Reliable	Order by description and size								
Util. Service	Order by description and size								
Line Material	99763	99765	99768	99769	99767	99768	99776	99776	99776
Nat. Tel. Sup. Co.	Order by description and size								
Pekcu	170	169	158	156	433	431	438	440	449

A.C.S.R.

Gauge	2/0 - 6/1	0 - 6/1	2 - 7/1	2 - 6/1	4 - 7/1	4 - 6/1	6 - 6/1
Diam. (inches)	.447	.398	.325	.316	.257	.250	.198
Alum. Co. of Amer.	529	540	542	542	544	544	546

cy - Sleeve, splicing, compression type

Copper & Copperweld Copper:

Gauge	0x7	2x3	4	6	6A	8A	8C	9½D	3#12
Diam. (inches)	.368	.320	.204	.162	.230	.199	.179	.174	.174

Manufacturer:

Nat. Tel. Sup. Co.	--	1-258/3x	1-204-B	1-162J	1-6 A-P	1-8 A-P	1-3/081M	1-3/081M	1-3/081M
Kearney (ABC)	ML-1/0-1	ML-2-1	ML-4	ML-6	MLC-61	MLC-81	--	--	--

ACSR

Gauge	2/0 - 6/1	0 - 6/1	2 - 7/1	2 - 6/1	4 - 7/1	4 - 6/1	6 - 6/1
Diam. (inches)	.447	.398	.325	.316	.257	.250	.198

Manufacturer:
Nat. Tel. Sup. Co. ORDER BY SIZE AND DESCRIPTION

Amerductor:

Gauge	4	6	8	8X	9X	10	12
Diam. (inches)	.310	.248	.196	.216	.192	.220	.175

Manufacturer:
Nat. Tel. Sup. Co. 2-8SC-P 2-12SC-P

Ruralductor:

Gauge	4	6	8
Diam. (inches)	.297	.252	.207

Manufacturer:

Nat. Tel. Sup. Co. 5-238/3W 5-203/3S 5-165/3L

cz - Sleeve, splicing, double tube

Amerductor:

Gauge	4	6	8	8x	9x	10	12
Diam. (inches)	.310	.248	.196	.216	.192	.220	.175

Manufacturer:

McIntire	1059-A	1061-A	1064-A	1061-x	-	1060-A	1010-A
Nat. Tel. Sup. Co.	4004	4006	4008	4008x	-	4010	4012
Joslyn	4006*	4006*	4006*	-	-	-	-

* War Standard Item, acceptable for duration and ninety days thereafter.

Ruralductor:

Gauge	4	6	8
Diam. (inches)	.297	.252	.207

Manufacturer:

McIntire	SCP4	SCP6	SCP8